TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-03-03-04** **Date: 10-03-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains at Doddabommasandra Krishna Temple Surrounding area in Ward No.09 Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, # 119, 11th Cross Road, Silvestre Arched, 3rd Floor, East Park Road, Malleswaram, Bangalore-03.
Customer's Reference	:	EE/BTP/BBMP/KRIDL/WO/64/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-03-17
Sample ID No	:	2017-03-03-04/03
Sample Type	:	Fine Aggrgate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	03-03-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	82	82	8.2	91.8	90-100	90-100	90-100	95-100
3	2.36 mm	165	247	24.7	75.3	60-95	75-100	85-100	95-100
4	1.18 mm	213	460	46	54	30-70	55-90	75-100	90-100
5	600 micron	128	588	58.8	41.2	15-34	35-59	60-79	80-100
6	300 micron	276	864	86.4	13.6	5-20	8-30	12-40	15-50
7	150 micron	93	957	95.7	4.3	0-10	0-10	0-10	0-15
8	Pan	43	1000	100	0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-03-03-04** **Date: 10-03-17**

Sample ID No : 2017-03-03-04/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.15	–
2	Specific Gravity	2.57	–
3	Material finer than 75 micron	4.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:
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Prepared by
Harshitha

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Authorized Signatory
Quality Manager

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2017-03-03-04** **Date: 10-03-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	:	Improvements to Drains at Doddabommasandra Krishna Temple Surrounding area in Ward No.09 Vidyaranyapura Sub Division.
Project Name	:	Executive Engineer, KRIDL, # 119, 11th Cross Road, Silvestre Arched, 3rd Floor, East Park Road, Malleswaram, Bangalore-03.
Customer's Reference	:	EE/BTP/BBMP/KRIDL/WO/64/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-03-17
Sample ID No	:	2017-03-03-04/04
Sample Type/Size	:	Solid concrete blocks of size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	03-03-17

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	403	203	201	16444	31.450	1912.6	1926.1	Not less than 1800Kg/m^3
2	401	201	203	16362	31.320	1914.2		
3	402	202	202	16403	32.01	1951.4		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185 (Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.260	32.110	3.58	3.37	Shall not be more than 10% by mass
2	33.150	32.040	3.46		
3	33.160	32.170	3.08		

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Lab ID : **CP-2017-03-03-04**

Sample ID No : **2017-03-03-04/04**

Date: 10-03-17

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	202	200	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	401	201	203	
3	402	201	203	
4	401	202	201	
5	402	201	203	
6	403	203	201	
7	401	202	203	
8	401	201	201	
9	403	203	200	
10	402	200	200	
11	402	201	201	
12	401	203	202	
13	402	203	201	
14	403	203	203	
15	400	203	203	
16	402	203	201	
17	401	201	202	
18	402	203	201	
19	401	201	200	
20	402	201	201	
Average of 20 blocks	**402**	**202**	**202**	

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Lab ID : **CP-2017-03-03-04** **Date: 10-03-17**

Sample ID No : 2017-03-03-04/04

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	402	202	81204	315.8	3.9	4.1
2	401	201	80601	321.1	4.0	
3	402	201	80802	303.6	3.8	
4	401	202	81002	328.7	4.1	
5	402	201	80802	354.8	4.4	
6	403	203	81809	318.9	3.9	
7	401	202	81002	375.8	4.6	
8	401	201	80601	322.7	4.0	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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Prepared by
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-03-03-04** **Date: 10-03-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains at Doddabommasandra Krishna Temple Surrounding area in Ward No.09 Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, # 119, 11th Cross Road, Silvestre Arched, 3rd Floor, East Park Road, Malleswaram, Bangalore-03.
Customer Reference	:	EE/BTP/BBMP/KRIDL/WO/64/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-03-17
Sample ID No	:	2017-03-03-04/01
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	10-04-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	154	154	3.08	96.9	90-100
3	10 mm	2265	2419	48.38	51.6	25-55
4	4.75 mm	2471	4890	97.8	2.2	0-10
5	Pan	110	5000	100	0	

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-03-03-04** **Date: 10-03-2017**

Sample ID No : 2017-03-03-04/01

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**11.5**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**8.8**	
3	Specific Gravity	**2.65**	_
4	Bulk Density(Loose) (Kg/l)	**1.51**	_
5	Bulk Density(Compacted) (Kg/l)	**1.59**	_
6	Water Absorption(%)	**0.28**	_
7	Aggregate crushing Value(%)	**24.6**	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	**22.8**	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-02-10-03** **Date: 10-03-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains at Doddabommasandra Krishna Temple Surrounding area in Ward No.09 Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, # 119, 11th Cross Road, Silvestre Arched, 3rd Floor, East Park Road, Malleswaram, Bangalore-03.
Customer's Reference	:	EE/BTP/BBMP/KRIDL/WO/64/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-02-17
Sample ID No	:	2017-02-10-03/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	10-02-2017 to 10-03-2017

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.96	–
2	Finess by Air permeablity method (m^2/kg, Min)	277.1	225m^2/kg, Min
3	Density (gm/cc)	3.18	–
4	Standard Consistency (%)	27.5%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2017-02-10-03** **Date: 10-03-2017**

Sample ID No : **2017-02-10-03/01**

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
6	Final Setting time	230 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm
8	Compressive Strength		
	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
	28 Days	56.5N/mm^2	Not less than 53 N/mm^2

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Quality Manager

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-03-03-04**	**Date: 10-03-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Drains at Doddabommasandra Krishna Temple Surrounding area in Ward No.09 Vidyaranyapura Sub Division.	
Agency	:	Executive Engineer, KRIDL, # 119, 11th Cross Road, Silvestre Arched, 3rd Floor, East Park Road, Malleswaram, Bangalore-03.	
Customer's Reference	:	EE/BTP/BBMP/KRIDL/WO/64/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	03-03-17	
Sample ID No	:	2017-03-03-04/06	
Sample Type	:	JSW	
Reference to BIS codes	:	IS 1786-2008	
Date of test:	:	06-03-17	

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	JSW	Fe500	10mm	0.613	572	681	22.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	JSW	Fe500	10mm	Satisfactory	Satisfactory

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Quality Manager

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Page 1/1
End of Report

TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-03-03-04**	**Date: 10-03-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Drains at Doddabommasandra Krishna Temple Surrounding area in Ward No.09 Vidyaranyapura Sub Division.	
Agency	:	Executive Engineer, KRIDL, # 119, 11th Cross Road, Silvestre Arched, 3rd Floor, East Park Road, Malleswaram, Bangalore-03.	
Customer's Reference	:	EE/BTP/BBMP/KRIDL/WO/64/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	03-03-17	
Sample ID No	:	2017-03-03-04/05	
Sample Type	:	JSW	
Reference to BIS codes	:	IS 1786-2008	
Date of test:	:	06-03-17	

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	JSW	Fe500	8mm	0.393	548	628	21.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	JSW	Fe500	8mm	Satisfactory	Satisfactory

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Jadhav
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Quality Manager

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-03-17-04** **Date: 22-03-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains at Doddabommasandra Krishna Temple Surrounding area in Ward No.09 Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL, # 119, 11th Cross Road, Silvestre Arched, 3rd Floor, East Park Road, Malleswaram, Bangalore-03.

Customer's Reference : EE/BTP/BBMP/KRIDL/WO/64/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-03-17

Sample ID No : 2017-03-17-04/03

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/03/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	15/03/2017	22/03/2017	150.22 X 150.27 X 150.87	22574	8.116	419.9	18.6	18.5
2	Drain Concrete	M20	15/03/2017	22/03/2017	150.11 X 150.37 X 150.22	22572	8.152	417.6	18.5	
3	Drain Concrete	M20	15/03/2017	22/03/2017	150.38 X 150.85 X 150.97	22685	8.155	415.1	18.3	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-03-17-04** **Date: 12-04-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains at Doddabommasandra Krishna Temple Surrounding area in Ward No.09 Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL, # 119, 11th Cross Road, Silvestre Arched, 3rd Floor, East Park Road, Malleswaram, Bangalore-03.

Customer's Reference : EE/BTP/BBMP/KRIDL/WO/64/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-03-17

Sample ID No : 2017-03-17-04/04

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Concrete	M20	15/03/2017	12/04/2017	150.05 X 150.28 X 150.26	22550	8.192	543.4	24.1	23.8
2	Drain Concrete	M20	15/03/2017	12/04/2017	150.27 X 150.78 X 150.22	22658	8.138	539.3	23.8	
3	Drain Concrete	M20	15/03/2017	12/04/2017	149.16 X 151.03 X 150.27	22528	8.177	529.4	23.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-03-17-04** **Date: 20-03-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains at Doddabommasandra Krishna Temple Surrounding area in Ward No.09 Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL, # 119, 11th Cross Road, Silvestre Arched, 3rd Floor, East Park Road, Malleswaram, Bangalore-03.

Customer's Reference : EE/BTP/BBMP/KRIDL/WO/64/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-03-17

Sample ID No : 2017-03-17-04/01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/03/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	12/03/2017	19/03/2017	151.66 X 150.25 X 149.82	22787	8.176	275.7	12.1	11.7
2	PCC	M15	12/03/2017	19/03/2017	149.22 X 151.29 X 150.54	22575	8.136	266.4	11.8	
3	PCC	M15	12/03/2017	19/03/2017	150.87 X 150.38 X 150.96	22688	8.122	254.1	11.2	

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Jodha
AE

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-03-17-04** **Date: 10-04-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains at Doddabommasandra Krishna Temple Surrounding area in Ward No.09 Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL, # 119, 11th Cross Road, Silvestre Arched, 3rd Floor, East Park Road, Malleswaram, Bangalore-03.

Customer's Reference : EE/BTP/BBMP/KRIDL/WO/64/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-03-17

Sample ID No : 2017-03-17-04/02

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	12/03/2017	09/04/2017	150.38 X 150.83 X 150.33	22682	8.154	406.0	17.9	18.2
2	PCC	M15	12/03/2017	09/04/2017	150.21 X 150.73 X 150.86	22641	8.165	418.9	18.5	
3	PCC	M15	12/03/2017	09/04/2017	150.77 X 150.98 X 150.22	22763	8.128	414.3	18.2	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared by
Harsitha

FOR CIVIL Pro.
CIVIL Pro Sig..... Date..... BANGALORE
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-03-03-04** **Date: 16-04-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains at Doddabommasandra Krishna Temple Surrounding area in Ward No.09 Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, # 119, 11th Cross Road, Silvestre Arched, 3rd Floor, East Park Road, Malleswaram, Bangalore-03.
Customer's Reference	:	EE/BTP/BBMP/KRIDL/WO/64/2016-17
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	03-03-17
Sample ID No	:	2017-03-03-04/02
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-03-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	876	876	5.8	94.2	90-100
3	20 mm	7543	8419	56.1	43.9	30-70
4	10 mm	3276	11695	78.0	22.0	10-35
5	4.75 mm	2992	14687	97.9	2.1	0-5
6	Pan	313	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-03-03-04** **Date: 16-04-2017**

Sample ID No : 2017-03-03-04/02

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.8	
3	Specific Gravity	2.63	–
4	Bulk Density(Loose) (Kg/l)	1.49	–
5	Bulk Density(Compacted) (Kg/l)	1.56	–
6	Water Absorption(%)	0.28	–

Note:

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Prepared by
Harshitha

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****